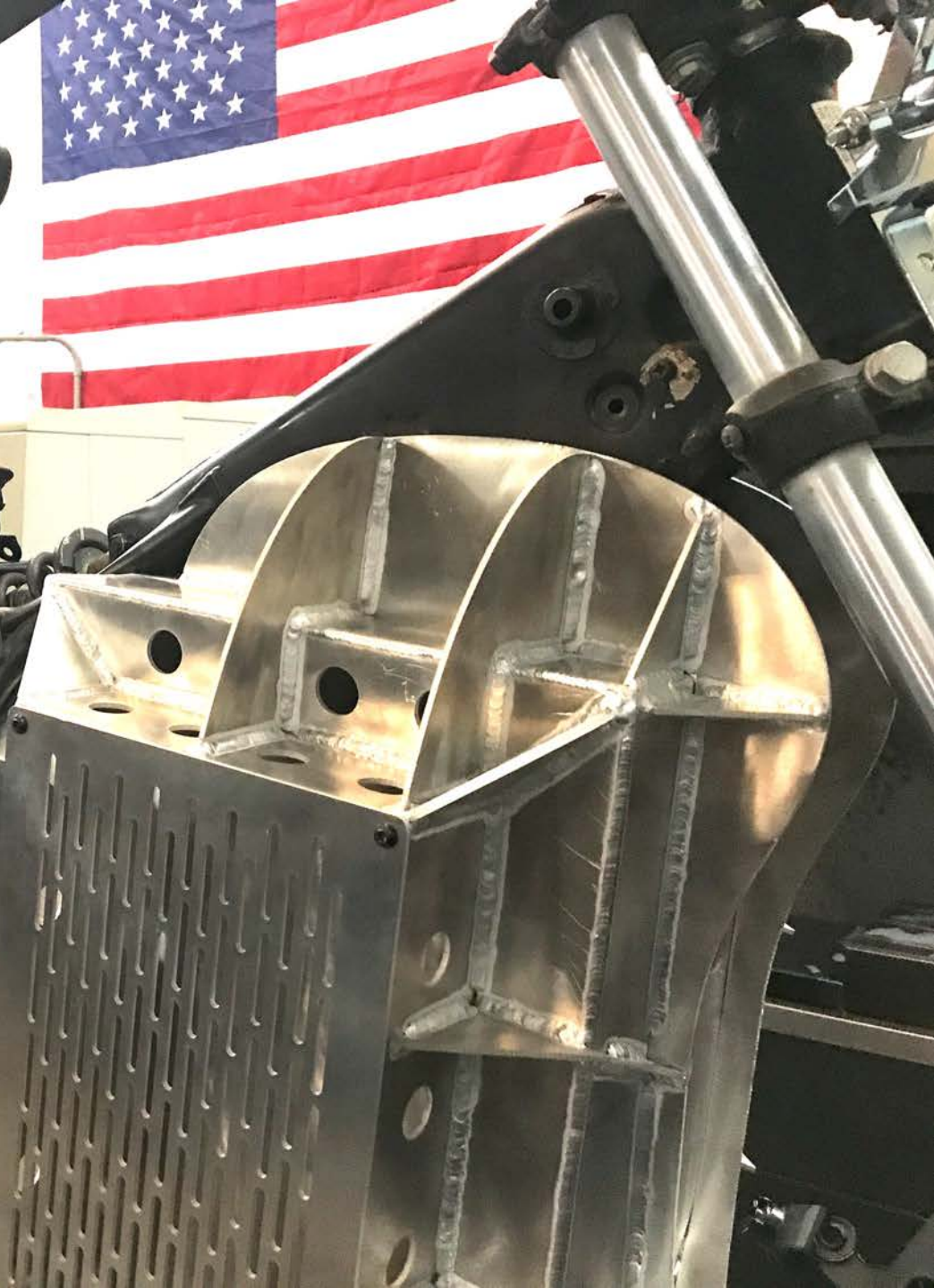




***SHANDOKA***  
***ELECTRIC MOTORCYCLES***

Striving to place electric motorcycles everywhere they are needed

[info@shandokacycles.com](mailto:info@shandokacycles.com)



# The Problem

Disrupting combustion vehicles

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Rapidly changing markets and products in transportation and mobility

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No Waste stream collection from old vehicles for proper handling and upcycling

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Legacy motorcycle technology does not meet carbon emission targets

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Independent motorcycle shops facing technology cliff – sales and maintenance



# The Opportunity

Value	Create Value for upcycling and remanufacturing
Support	Support Independent motorcycle business, B2B2C
Replace	Replace dirty combustion from daily travels
Provide	Provide technology bridge for motorcycle shops



# March 2021 Survey

673 existing cycle  
riders in the U.K.

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47% want to buy electric, and 3.6% already have

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85% riders under 25 want to buy electric

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40% overall want to BAN new Petrol motorcycles

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Reasons cited for purchase:

58% instant torque and power    44% long-term savings

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Reasons against:

65% Charge time and range    42% miss the sound

Source: Bikesure UK (motorcycle insurance company)



# USA Market for MOTORCYCLES



US Total Market \$9 to \$11 BILLION
2 MILLION used cycles sold each year
Addressable: 400,000 motorcycles annually
Attainable by 2030: 100,000 RetroFit yearly, 5% of sales

# GLOBAL MARKET

Motorcycles \$116B Opportunity



USA – 2 M New Registrations of Used Motorcycles annually



Europe – 1.2 M registered – 25% mopeds



Pakistan – 34 million registered – Same models for 50 years



India – 37 million registered – “Smart Village” initiatives



Vietnam – 45 million registered



Africa – est. \$9 Billion Market, almost all used



# The Shandoka Solution

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Protected method for Motorcycle RetroFit

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Right fit with Motorcycle Culture –  
local shops are the cornerstone

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Regulatory Advantage –  
no government approvals on launch

---

Lowest carbon footprint –  
upcycling and reuse, sustainability goals

---

Scalable production on regional and global  
level for greatest impact







# THE RETRO-FIT SOLUTION

Personalization of  
motorcycles leads to  
community  
storytelling

Simple gas to electric  
retrofit system

- Safety
- Reliability
- Future Proof



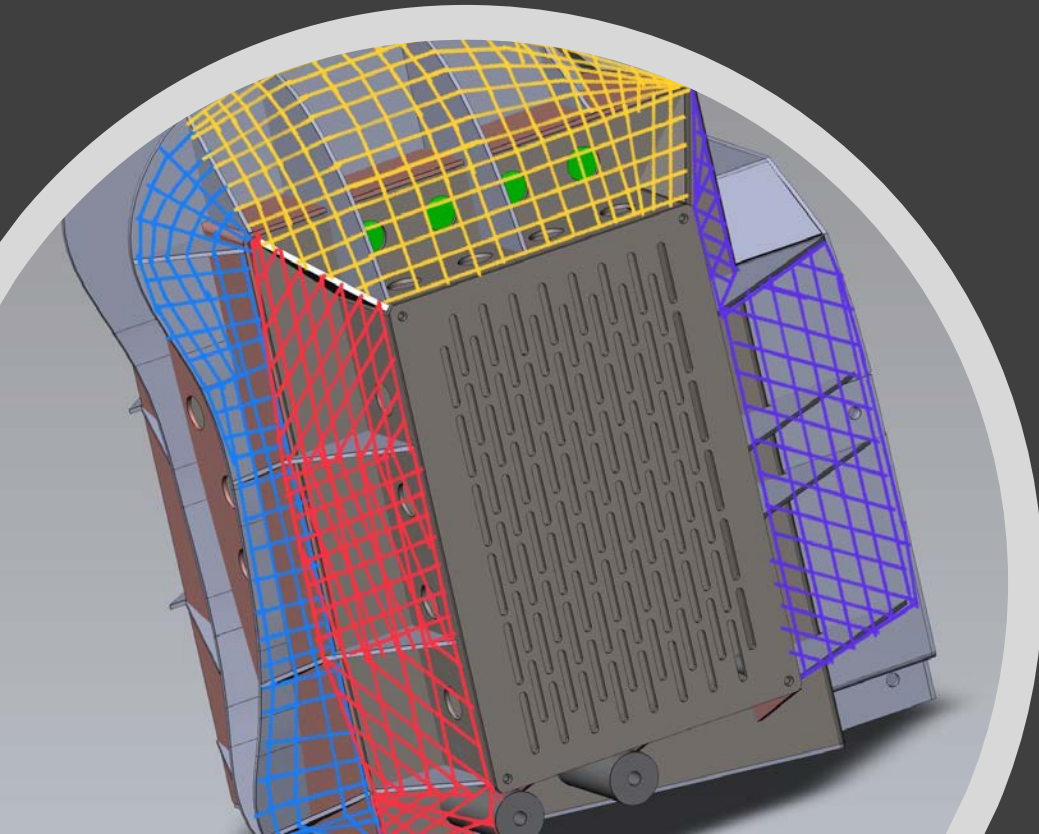
# Truly Autonomous Welding



## Motorcycle Conversion Systems:

Unified Design supports 5 general retro-fit kits. All use same primary components.

- Street / commuter / cruiser bike types ready for final prototyping
- Simple to adjust design for custom fit by A.I. enhanced robotic welders cuts cost by 60% with no forward CapEx
- Margin increase by 20% with advanced fabrication and subscription robotics
- Future Path: Custom 3D Print systems, 100% Tailored Fit for Every Motorcycle



# Shandoka

## Underlying Magic

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Our motorcycles are already on the road around the world – existing VIN

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Localized manufacturing with robotic systems and human welders

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Tailored-fit motorcycles with adapters for every cycle architecture easily produced

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Empower and engage with local Motorcycle Shops to build culture

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Easy Net-Zero Carbon compliant solution

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# Shandoka Launch Team



Ernest Eich  
CEO, Founder

Inventor of retrofit  
adapter system  
and business  
model designer



Priya Ahluwalia  
CMO

Skilled  
International  
Marketing officer



Daniel Karayan  
CFO/Operations

Previously as  
CFO/COO with  
international  
roles



Gregorio Muraco  
Dir of Cycle Design

International brand  
developer and  
design vision  
setter



# Shandoka Launch Team



Mike Del Pietro

Sales tracking and  
business modeling



John James

Leadership  
Development and  
Sales Teams Support



Nebras Hayek

Beta Tester and  
Influencer  
marketing team



# Fundraising Timeline

Pre-Seed – \$250K  
@ \$10M

Now thru Oct  
2021

Sales of RetroFit  
Fleet services test  
case

September 2021 – 2 complete USA market retrofit motorcycles for demo rides

Q3 begin active sales with Europe partners

Q4 open first sales in Australia (their summertime)

Q3/Q4 of 2021 begin factory retrofit work on first 12 private sales for the USA

Seed – \$8M  
@ \$53.3M  
Open Feb 2022

Activate first  
manufacturing facility

Q2 of 2022 – A.I. welding ready for adapter system fabrication “1 per day” minimum

Q3 of 2022 – Begin US fabrication of new scooters and compact motorcycles

Series A –  
TBD

Open Oct  
2023

Prepare Expansion  
for Global footprint

Q1 of 2024 – prepare for international production locations to serve regional demand

# Shandoka Business Model

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Retro-Fit Motorcycle leads entry to the marketplace, avoids regulatory hurdles.

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Community Building is the backbone of the brand – dealership networks

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Authorized and trained shops maintain culture and quality

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New production for motorcycles & scooters that support the demand for clean mobility.



# Reasons to invest in Shandoka now:

## Empowering Everyday People with sustainable mobility choices

- Aligns with Global Emission mandates – Worldwide solution
- Functionally Mature Technology
- Community integrated business
- Women, Millennials, Gen-Z fastest growing motorcycle rider group



Underlying structure shown

Trademark design  
US and INTL Patents in Process

Join the Journey – [info@shandokacycles.com](mailto:info@shandokacycles.com)

Ernest Eich – founder and inventor



**SHANDOKA**  
ELECTRIC MOTORCYCLES



## Appendix Information

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Striving to place electric motorcycles everywhere they are needed



# The Motorcycle Industry

## Snapshot

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Challenge to established brands –  
combustion knowledge is useless

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Technology blurs line between  
bicycle / moped / motorcycle

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New markets of on-demand /  
shared vehicle use / ride hail

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## Motorcycles Global market

\$ 116 B in 2018

Grow to \$156B in 2026

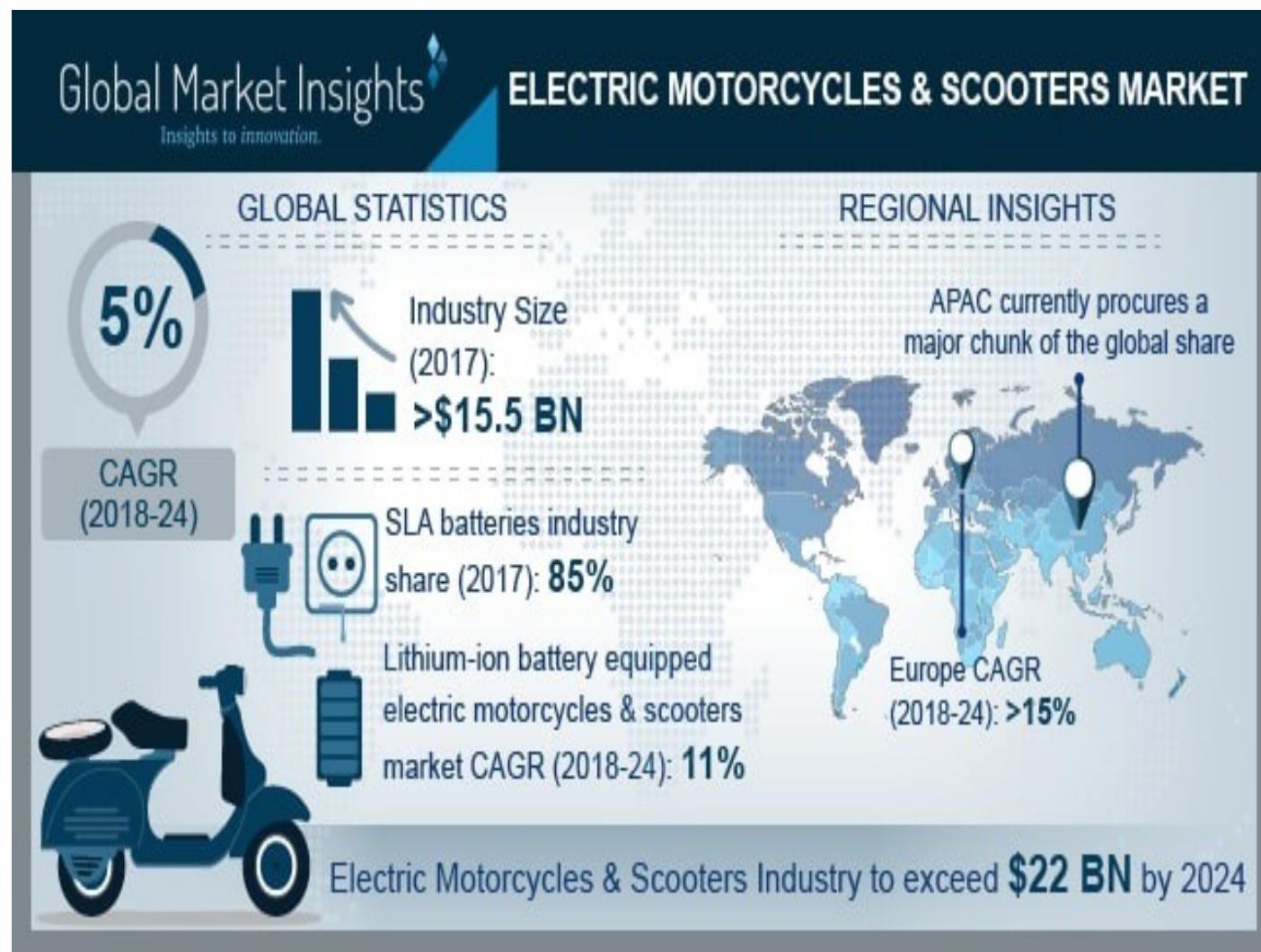
## Motorcycles US market

\$ 9-11 B in 2018

## Electric Motorcycles Global

\$15 B in 2017

Grow to \$ 22 B 2024



# The Electric Motorcycle Industry

Competitive space

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Existing – Harley, Honda, Royal Enfield, BMW, Curtiss, Yamaha...

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Early electric specialty – Zero, Energica, Alta Motors (bought by Harley)

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Recent startups – Damon Hyperbike, Johammer, Horwin Tech, Yadea

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Chinese Industry – Standard Chinese Motorcycle

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Establishment expansion – Apple, Foxconn







# THE RETRO-FIT SOLUTION

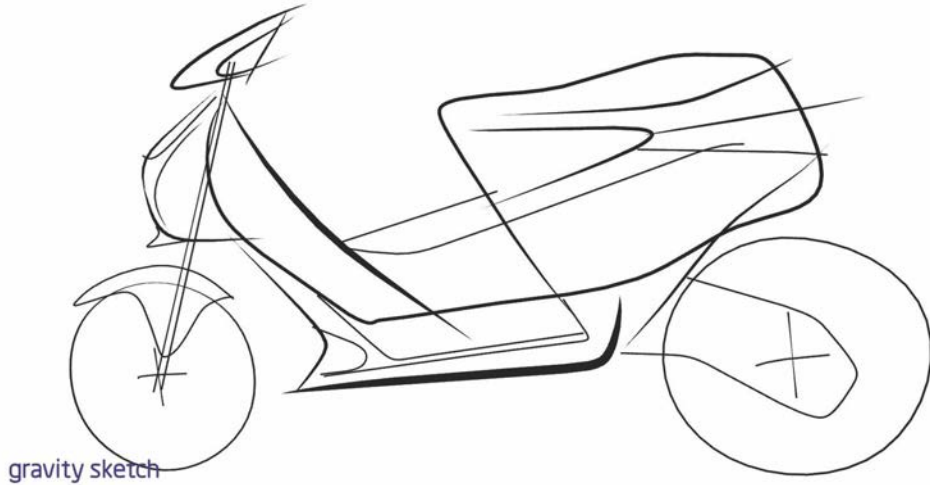
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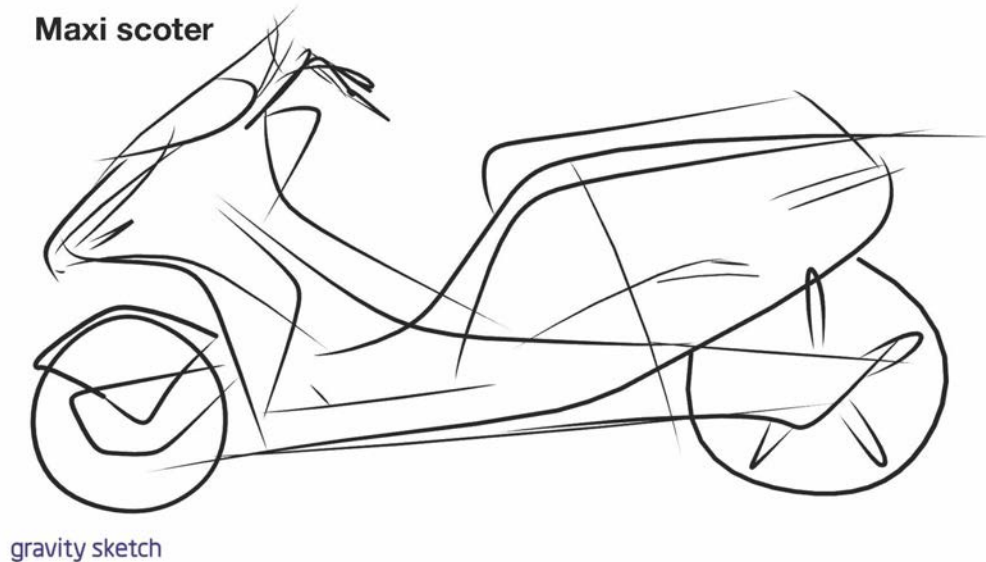
- Safety
- Reliability
- Future Proof



## Scooter light



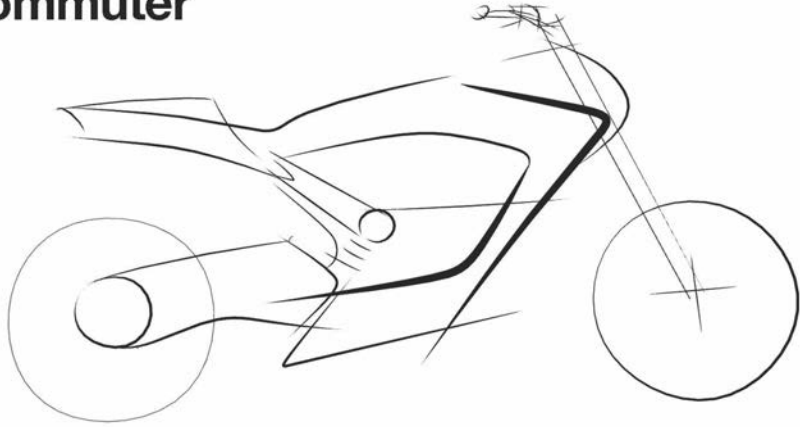
## Maxi scoter



# THE CITY-SIZE SOLUTION

- Street Legal
- Easy load Cargo
- Easy to Operate
- Easy to Maintain
- 60 mile range at 45 mph
- Battery Exchange or Fast Charging

## Commuter

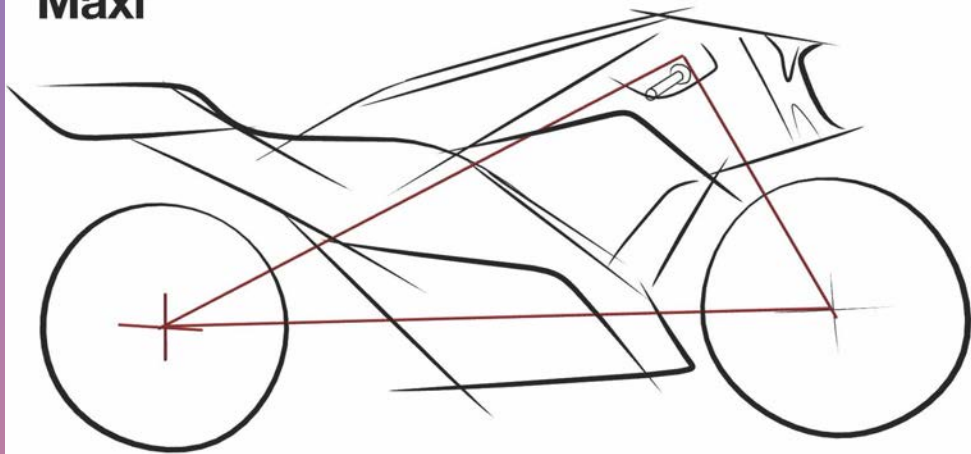


gravity sketch

# THE COMMUTER SOLUTION

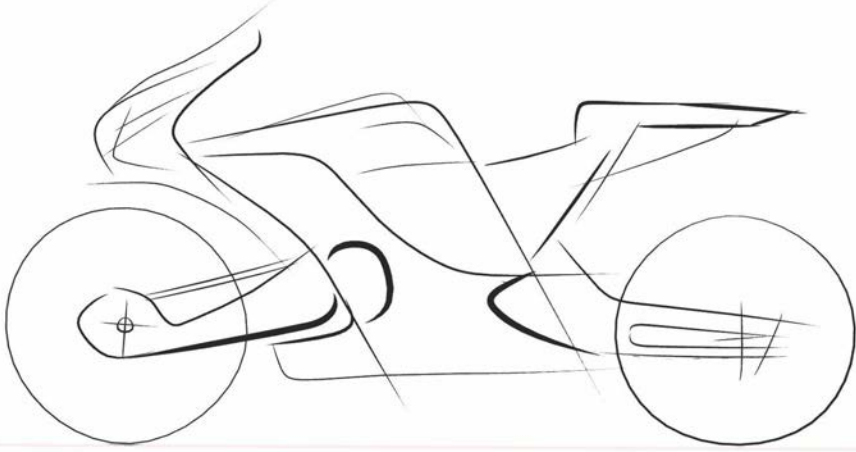
- Street Legal
- Traffic Ready
- Easy to Operate
- Easy to Maintain
- 100 mile range at 65 mph
- Fast charging

## Maxi



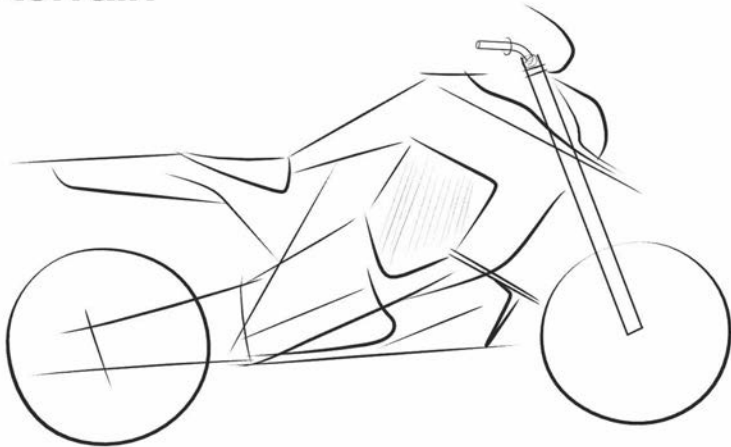
gravity sketch

## Supersport



gravity sketch

## All terrain



gravity sketch

# THE RECREATION RIDER SOLUTION

- Each class of motorcycle suited to the type of riding experience
- Power options tailored to the buyer
- High-Energy Density systems
- Fast charging
- Dealer Serviceable



# Truly Autonomous Welding



A.I. enabled robotic welding with zero capital expense from Path Robotics





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